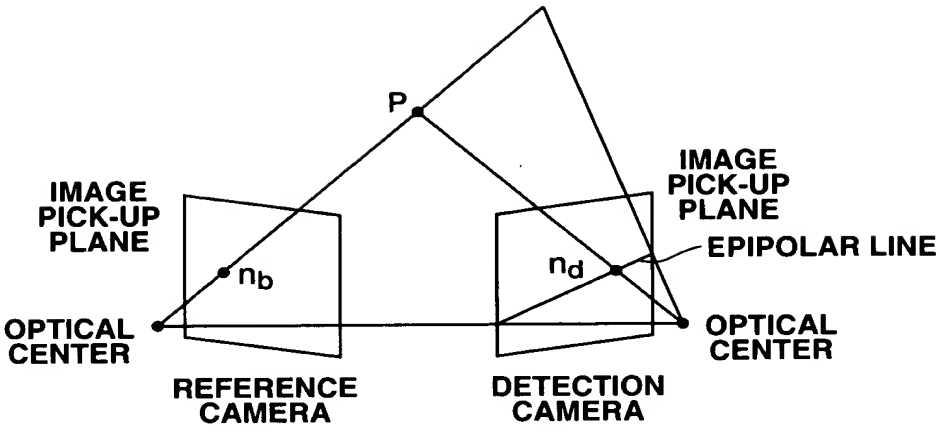

FIG.1

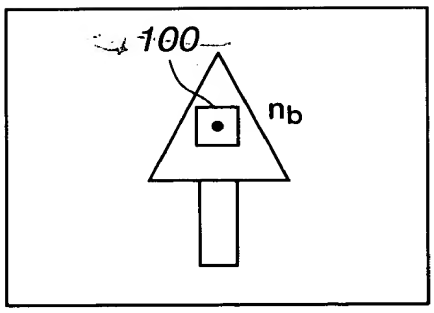

FIG.2A

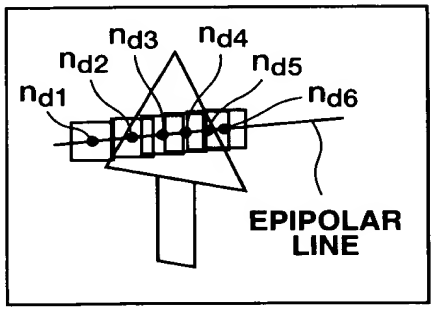

FIG.2B

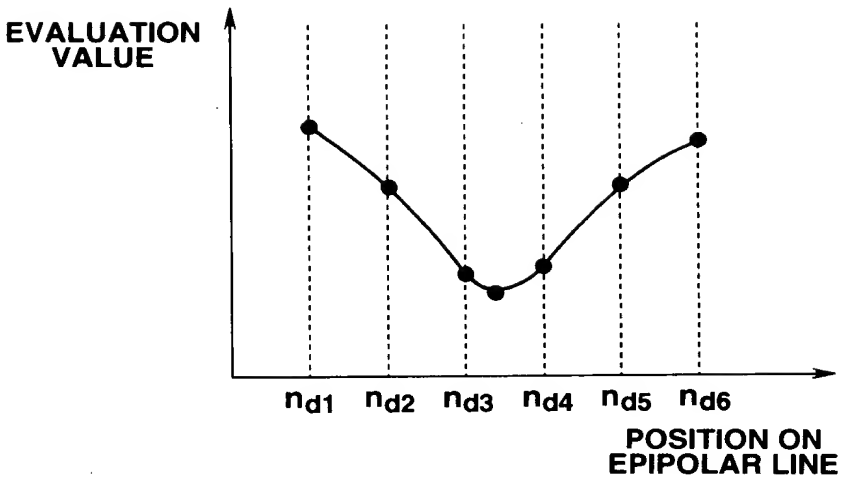
EVALUATION VALUE
n_{d1} n_{d2} n_{d3} n_{d4} n_{d5} n_{d6}
POSITION ON EPIPOLAR LINE

FIG.3

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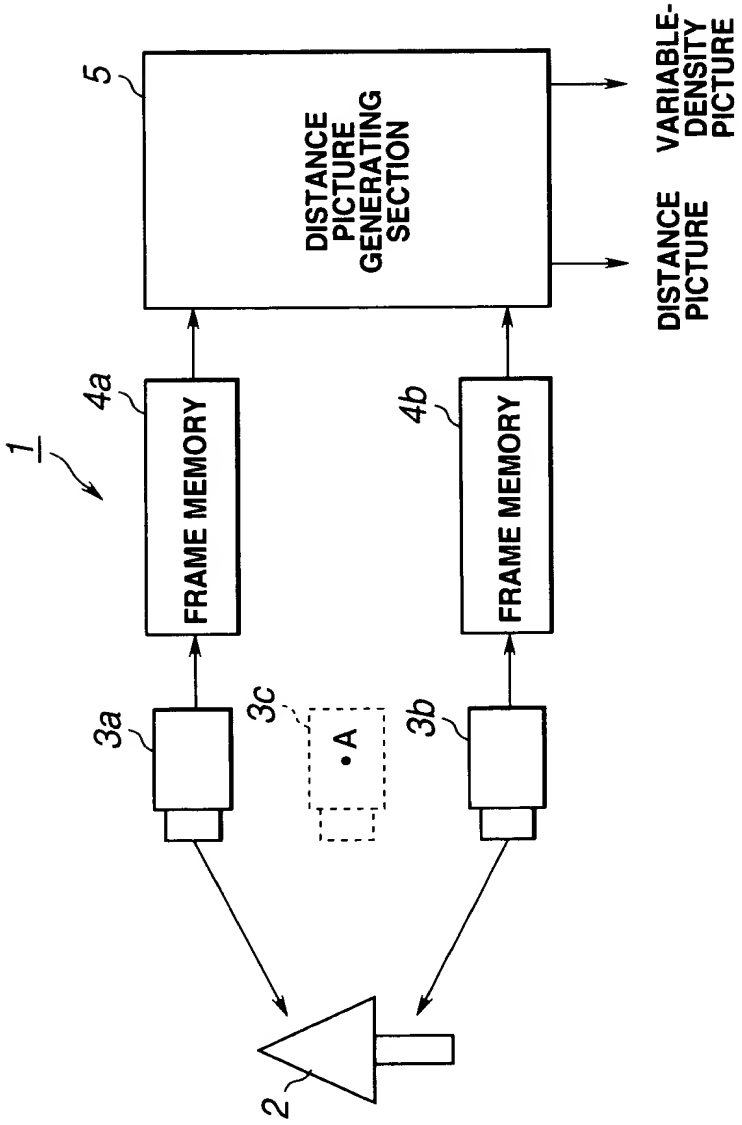

FIG.4

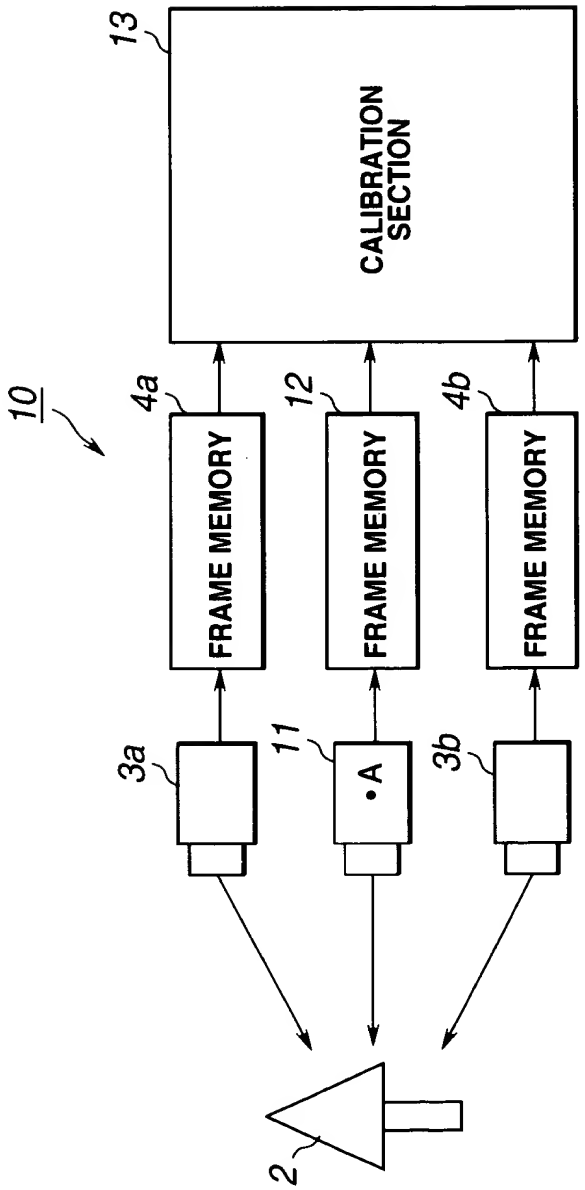
13
CALIBRATION SECTION
10
4a
12
4b
FRAME MEMORY
FRAME MEMORY
FRAME MEMORY
3a
11
3b
A
2

FIG.5

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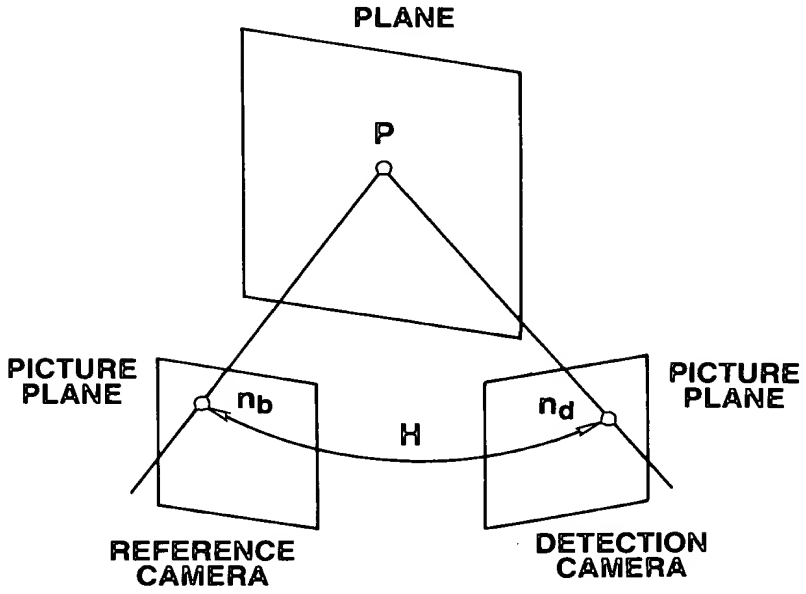

FIG.6

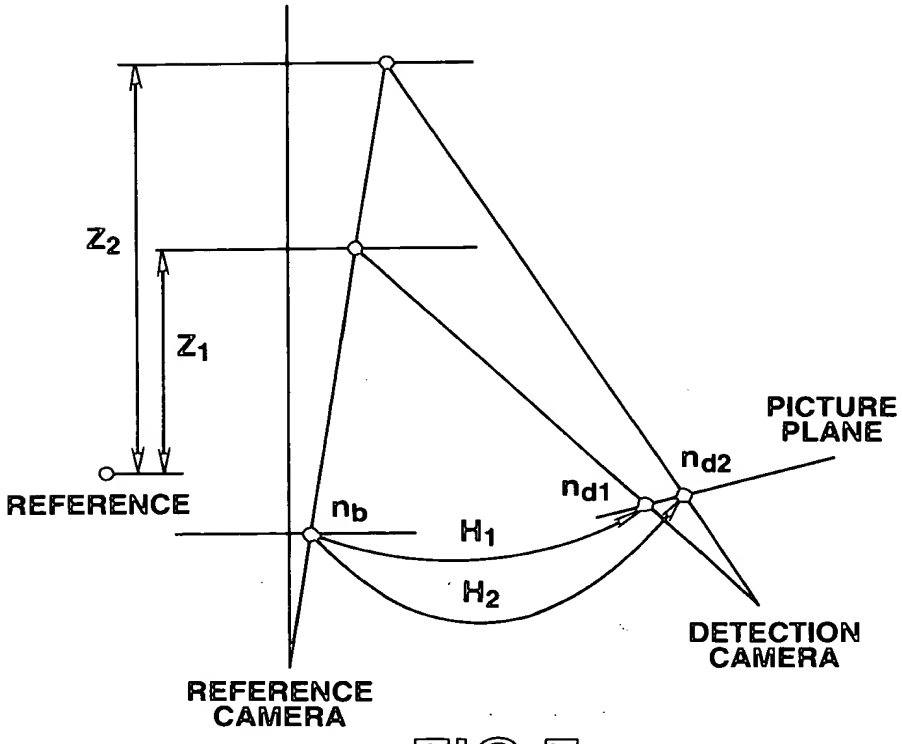

FIG.7

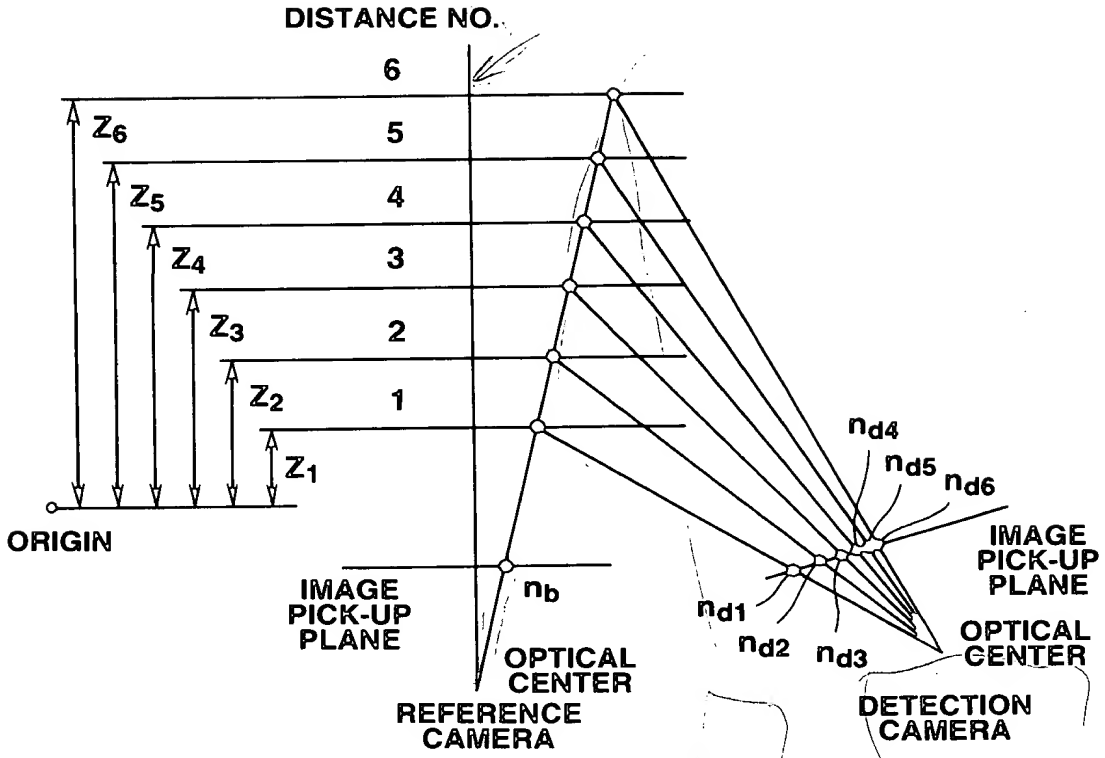

FIG.8

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	n_b	
DISTANCE	DETECTION CAMERA 3a	DETECTION CAMERA 3b
Z_1	n_{d1}	n_{d1}
Z_2	n_{d2}	n_{d2}
Z_3	n_{d3}	n_{d3}
⋮	⋮	⋮

FIG.9

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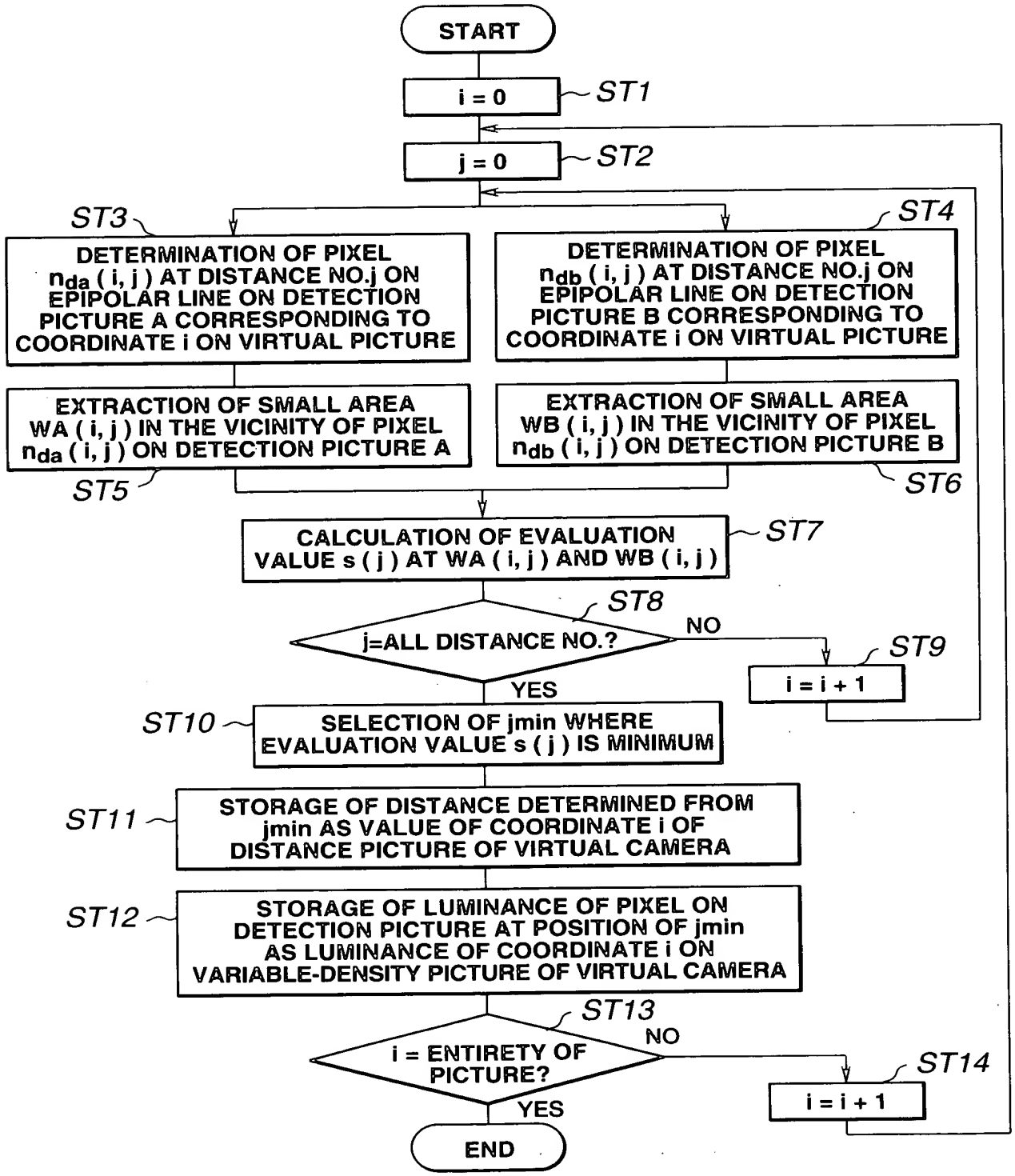
START
i = 0
ST1
j = 0
ST2
ST3
DETERMINATION OF PIXEL n_{da} (i, j) AT DISTANCE NO.j ON EPIPOLAR LINE ON DETECTION PICTURE A CORRESPONDING TO COORDINATE i ON VIRTUAL PICTURE
ST4
DETERMINATION OF PIXEL n_{db} (i, j) AT DISTANCE NO.j ON EPIPOLAR LINE ON DETECTION PICTURE B CORRESPONDING TO COORDINATE i ON VIRTUAL PICTURE
EXTRACTION OF SMALL AREA WA (i, j) IN THE VICINITY OF PIXEL n_{da} (i, j) ON DETECTION PICTURE A
ST5
EXTRACTION OF SMALL AREA WB (i, j) IN THE VICINITY OF PIXEL n_{db} (i, j) ON DETECTION PICTURE B
ST6
CALCULATION OF EVALUATION VALUE s (j) AT WA (i, j) AND WB (i, j)
ST7
ST8
j=ALL DISTANCE NO.?
NO
ST9
i = i + 1
YES
ST10
SELECTION OF jmin WHERE EVALUATION VALUE s (j) IS MINIMUM
ST11
STORAGE OF DISTANCE DETERMINED FROM jmin AS VALUE OF COORDINATE i OF DISTANCE PICTURE OF VIRTUAL CAMERA
ST12
STORAGE OF LUMINANCE OF PIXEL ON DETECTION PICTURE AT POSITION OF jmin AS LUMINANCE OF COORDINATE i ON VARIABLE-DENSITY PICTURE OF VIRTUAL CAMERA
ST13
i = ENTIRETY OF PICTURE?
NO
ST14
i = i + 1
YES
END

FIG.10

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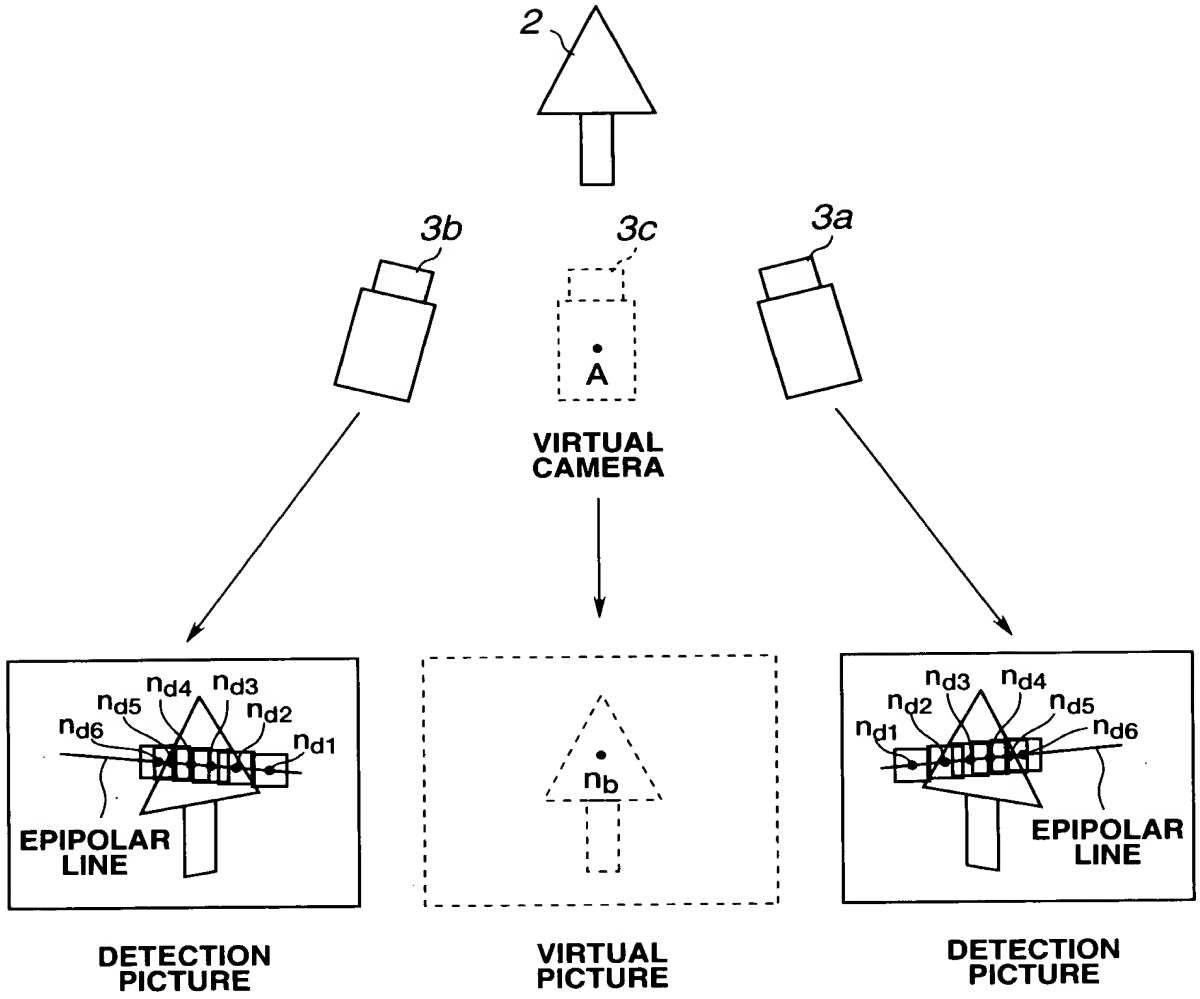

FIG.11

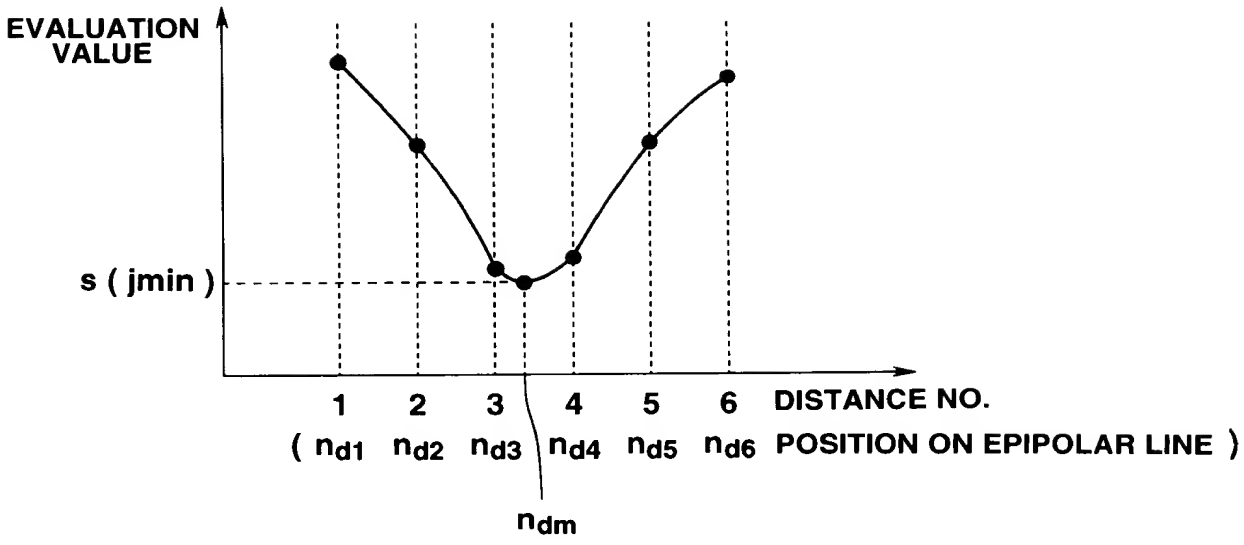
EVALUATION VALUE
s (jmin)
1
2
3
4
5
6
DISTANCE NO.
(nd1 nd2 nd3 nd4 nd5 nd6 POSITION ON EPIPOLAR LINE)
ndm

FIG.12

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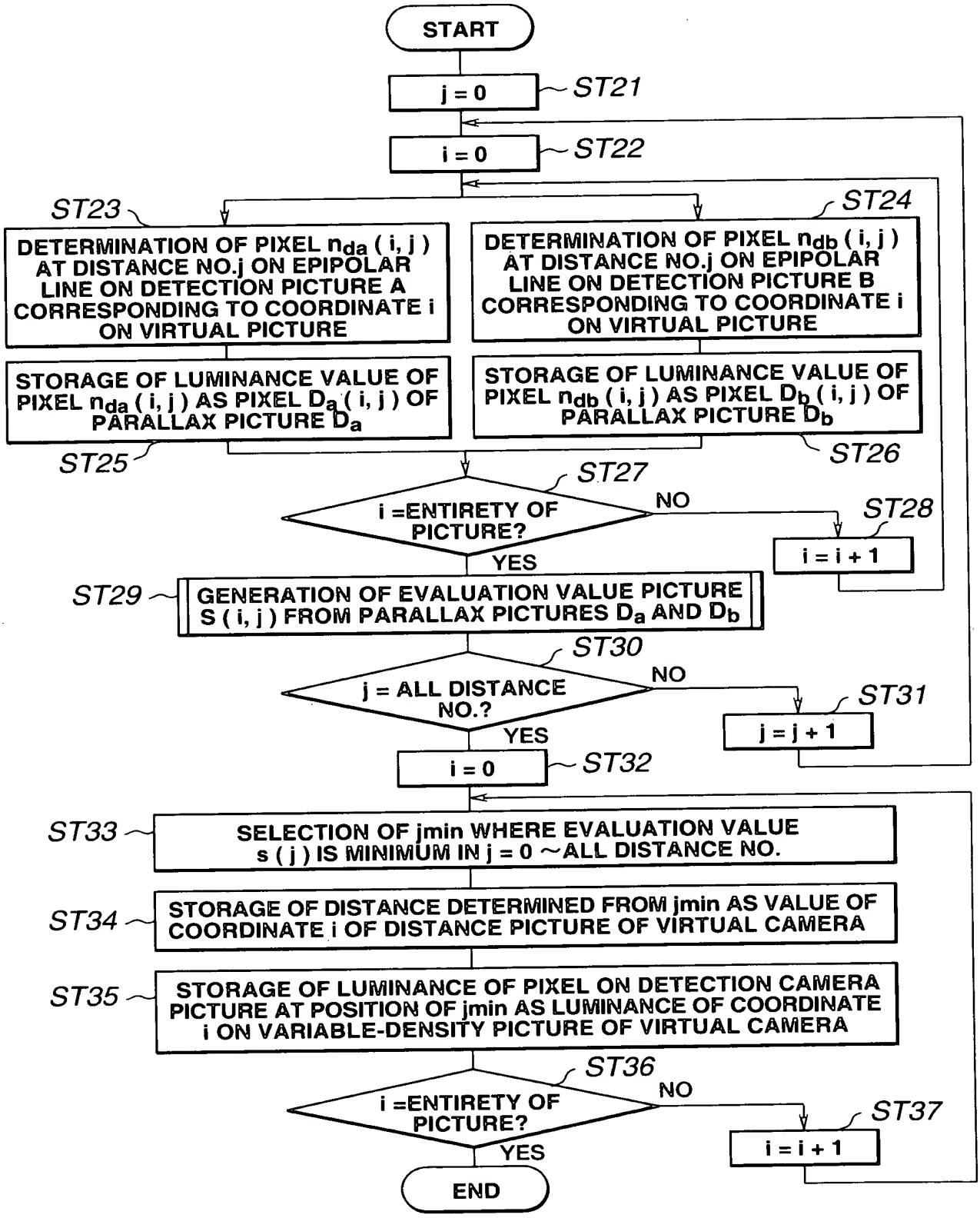

FIG.13

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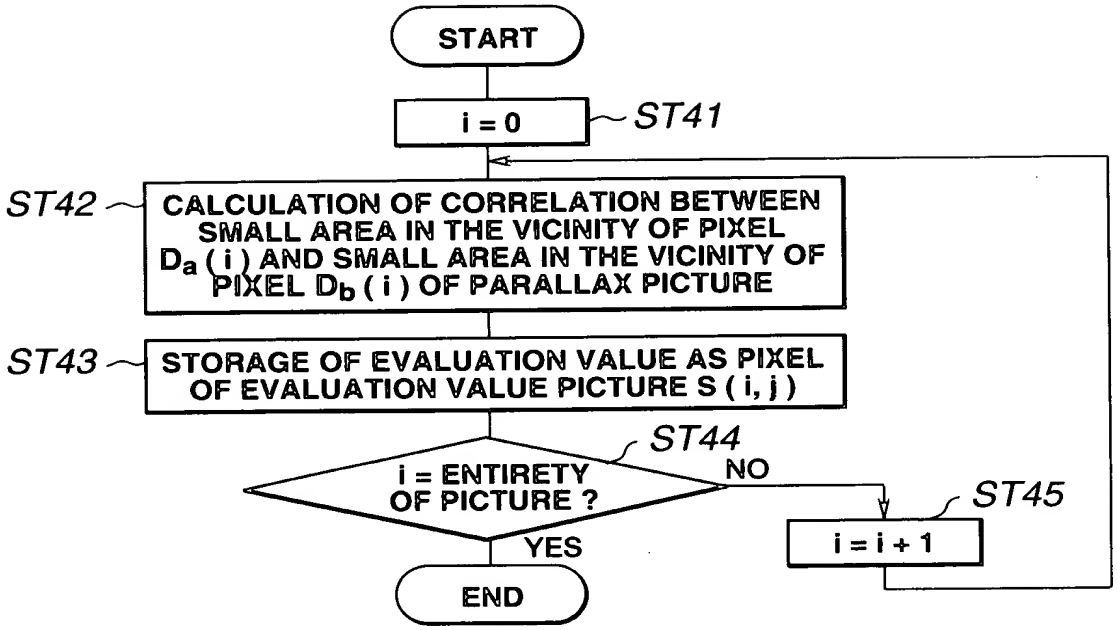

FIG.14